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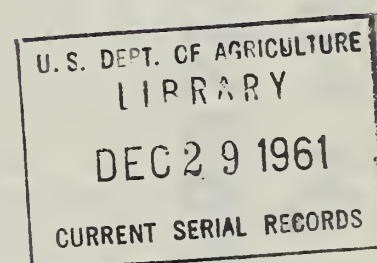
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COLD STORAGE *Report*

VOL. XLVI No. 12 Released December 15, 1961 at 2 P.M. (E.S.T.) DECEMBER 1961

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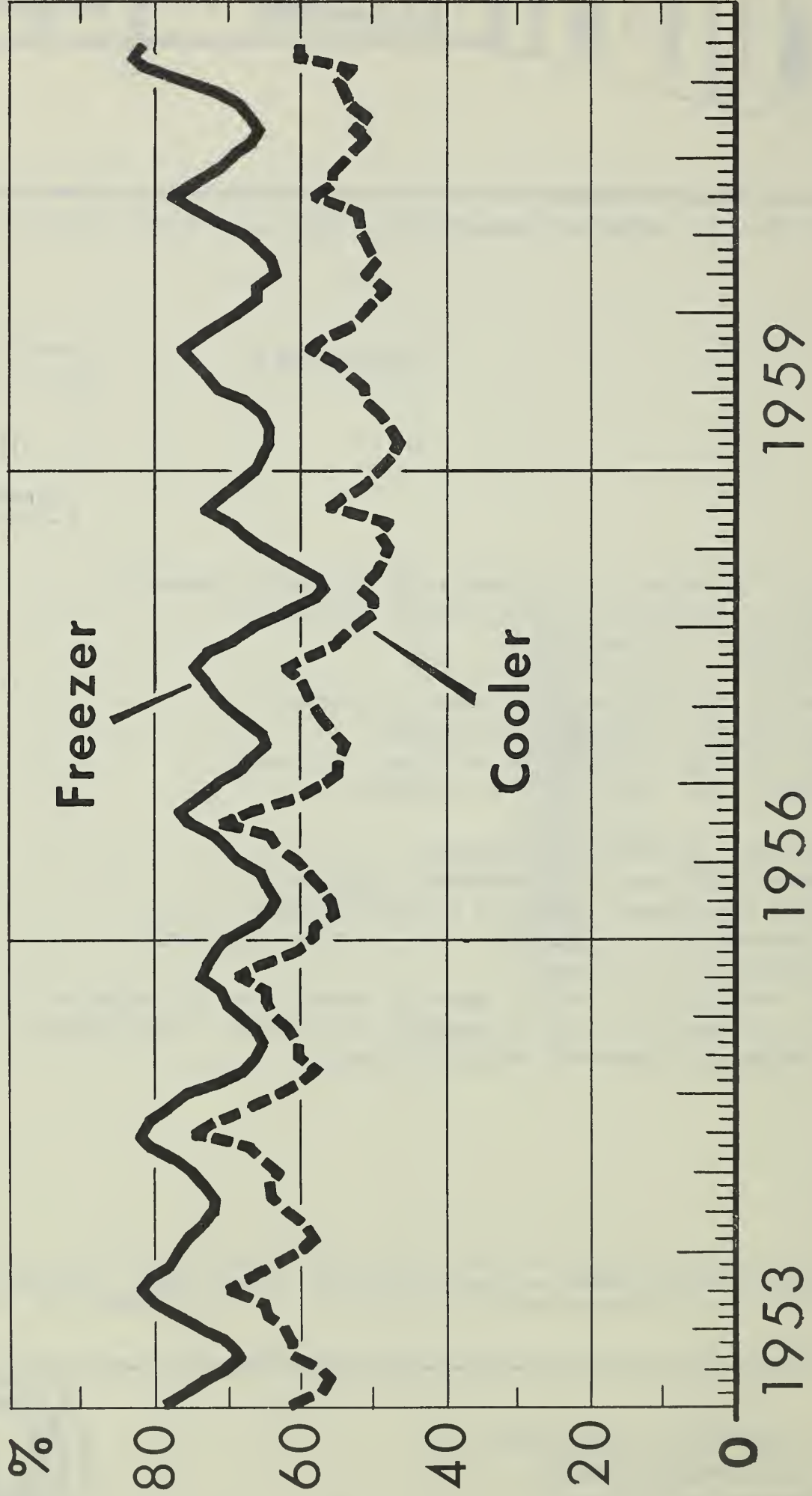
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[Data for this report are collected from public, private, and semiprivate warehouses, apple houses, and meat-packing plants where food products are generally stored for 30 days or more. Commodities in space owned or leased and operated by the armed services are not reported. All November 30, data are preliminary.]

U. S. DEPARTMENT OF AGRICULTURE
STATISTICAL REPORTING SERVICE
Agricultural Estimates Division
Washington, D. C.
CoSt 1(12-61)



PERCENTAGE OCCUPANCY OF PUBLIC COLD-STORAGE WAREHOUSES



END OF MONTH OCCUPANCY

COLD STORAGE REPORT, DECEMBER 1, 1961

Commodity summary

Refrigerated warehouses stored 7.3 billion pounds of product weight on December 1, according to reports received by the Crop Reporting Board. Of this, 3.6 billion pounds were cooler stored and 3.7 billion, freezer held. Stocks of frozen turkeys, total poultry, frozen fruits, and frozen vegetables were at new highs for the month. December 1 stocks of turkeys amounted to 319 million pounds, 52 percent more than a year earlier and 57 percent above the December 1, 1956-60 average. Poultry holdings at 489 million pounds were 39 percent larger than this time last year and 35 percent above average. Net withdrawals of turkeys during November were larger than usual but less than a year earlier. Frozen vegetable supplies were down 52 million pounds since November 1 and, at 1.3 billion pounds on December 1, were about one-fourth larger than a year earlier and more than one-third above average for the date. Frozen fruits totaled 563 million pounds, 11 percent more than on December 1, 1960 and 12 percent above average for the date. Seasonal reductions in butter stocks lowered warehouse supplies 5 million pounds to 225 million. However, 186 million pounds were Government owned on December 1, leaving 39 million pounds in commercial channels compared with 26 million last year. A 13-million pound decline in American cheese stocks left 419 million in storage on December 1, about 46 percent more than last year and 28 percent more than average. Shell eggs in storage, 82 thousand cases, were the lowest for the date since 1950. Frozen eggs totaled 70 million pounds, the lowest for December 1 since 1953. These supplies were 20 percent below December 1, 1960 and 25 percent below average. Orange concentrate holdings were reduced by 6 million gallons. The 17 million gallons remaining were over 3 million larger than last year and almost 1 million above average for the date. The red meat supply build-up of 94 million pounds during November was almost 50 percent greater than average and stocks were brought up to 491 million pounds. This time last year there was a net gain of 9 million pounds and stocks totaled 410 million pounds.

Storage occupancy in public warehouses

Occupancy of cooler space in public warehouses remained unchanged during November, however, use of freezer space declined. Cooler occupancy of 60 percent on December 1 compares with 56 percent a year ago while the average for the date is 58 percent. A reduction of 1-percentage point brought December 1 freezer occupancy to 82 percent. This is the highest level of use for the date since 1951 and compares with 75 percent on December 1, 1960 and the December 1, 5-year average of 74 percent. Decreases in freezer occupancy indicated in East North Central, West North Central, South Atlantic, Mountain and Pacific Regions more than offset increases in other regions.

Cooler and freezer stock changes

December 1 stocks in public and private refrigerated space were reduced to 7.3 billion pounds, down 334 million from the record high of the previous month. Cooler-held stocks fell off seasonally as net withdrawals of fruits, dairy products, eggs, and beef more than offset gains in stocks of fresh vegetables, nuts, and pork. The overall decline of 203 million pounds left 3.6 billion in storage. Freezer stocks declined 131 million pounds to 3.7 billion by December 1. This is a new high for the date. Stocks of cream, butter, eggs, poultry, fruits, juices, and vegetables declined seasonally and more than countered the November gains in stocks of red meats.

Dairy products

December 1 stocks of cream totaled 9 million pounds, down 4 million from a month before. This reduction equalled both the change last year and the average November decline. Stocks, however, were about one-third below the December 1, 1960 supplies and average holdings for this time of year. A decline of 5 million pounds in butter holdings lowered stocks of 225 million pounds while last year, the reduction was 25 million pounds and stocks totaled 91 million pounds on December 1. The average November decline is 23 million pounds and average December 1 stocks are 76 million pounds. Of the 225 million pounds in storage, 39 million pounds were non-Government owned, which compares with 26 million pounds last year. Warehouse stocks of

American cheese, at 419 million pounds, were 46 percent larger than a year earlier and 28 percent larger than average. Net withdrawals of 13 million pounds during November compare with 4 million a year ago and 23 million pounds, the average reduction for the month.

Vegetables, fruits, and juices

November net withdrawals in frozen vegetable stocks brought holdings down to 1.3 billion on December 1. For the date, these are record stocks. The reduction of 52 million pounds since November 1 is in contrast to the gain of 4 million pounds a year earlier and compares with 14 million pounds, the average November reduction. Supplies were lowered during November for all frozen vegetable items except broccoli, brussels sprouts, carrots, cauliflower, mixed vegetables, peas and carrots mixed, and french fries. The 238 million pounds of peas stored on December 1 were down 31 million pounds from a month earlier and compare with 201 million a year ago. Average stocks for the date are 231 million pounds. Frozen fruits totaled 563 million pounds on December 1. This was 11 percent more than on December 1, 1960 and 12 percent more than average. Withdrawal during November of 23 million pounds was greater than both the November 1960 and the average reduction. Holdings of frozen strawberries were reduced to 166 million pounds, about 5 percent less than a year earlier and 12 percent less than average. A special package size survey for December 1 indicated that 62 percent of the strawberry stocks were in institutional and industrial-sized containers with the remainder, 38 percent, in retail units. Orange concentrate stocks were reduced seasonally to 17 million gallons. This compares with 14 million stored a year ago and average stocks of 16 million gallons. Net withdrawals during November of 6 million gallons were about equal to both the change a year earlier and average.

Poultry and poultry products

Stocks of poultry meats on December 1 totaled 489 million pounds, a record for the date but a decline of 61 million pounds from last month's alltime high of 550 million pounds. This reduction compares with 62 million pounds during November 1960 and the 5-year average decline of 27 million pounds. The December 1 total exceeded the previous record for the date by 112 million pounds. Turkey holdings on December 1 totaled 319 million pounds, the largest for the date, but a drop of 63 million pounds from the alltime high of 382 million pounds reached last month. December 1 turkey holdings exceeded the previous record for the month by 99 million pounds. A seasonal reduction in shell egg stocks of 63 thousand cases during November compares with 173 thousand cases a year earlier and the average reduction of 150 thousand cases. Only 82 thousand cases remained in storage on December 1 which compares with 96 thousand a year ago and average December 1 stocks of 272 thousand cases. This is the lowest December 1 holding since 1950. Frozen egg stocks were reduced by 15 million pounds during November to total 70 million pounds, the lowest December 1 stocks since 1953. Last year at this time, holdings were 87 million pounds while the December 1 average is 93 million pounds.

Meat and meat products

A larger than usual seasonal increase in warehouse stocks of red meats brought December 1 holdings to 491 million pounds. The gain of 94 million pounds from last month compares with a 9 million pound rise last year and the average November increase of 65 million pounds. Beef stocks rose 31 million pounds during November to total 204 million on December 1. These stocks were 21 percent above holdings on December 1, 1960 and 22 percent above average. A 58-million pound net increase in pork stocks during November compares with a 10-million pound gain for the period last year and a 5-year average rise of 41 million pounds. Pork holdings totaled 195 million pounds on December 1. Holdings of all pork items were up during November.

Table 1. --Net change in storage holdings during November 1/

Cooler commodities	Holdings November 30, 1961	November net change		Freezer commodities	Holdings November 30, 1961	November net change	
		Quantity	Pct.			Quantity	Pct.
	<u>1,000 lb.</u>	<u>1,000 lb.</u>	<u>Pct.</u>		<u>1,000 lb.</u>	<u>1,000 lb.</u>	<u>Pct.</u>
Apples	2,135,520	-190,656	8	Cream	9,478	- 3,683	28
Pears	107,340	- 55,790	34	Butter creamery .	225,230	- 5,478	2
Other fresh fruits .	102,991	- 17,692	15	Eggs	70,140	- 15,404	18
Fresh vegetables . .	68,889	13,959	25	Poultry	489,273	- 61,173	11
Dried & evap. fts. .	25,095	- 1,257	5	Fruits	562,563	- 22,835	4
Nutmeats	151,818	25,494	20	Juices	320,636	- 60,392	16
Nuts in shell . . .	35,050	14,817	73	Vegetables . . .	1,280,996	- 51,831	4
Other dairy prod. . .	31,301	- 9,446	23	Beef	191,981	31,366	20
Cheese	469,608	- 20,941	4	Pork	154,636	50,302	48
Shell eggs	3,838	- 2,948	43	Other meats . . .	30,048	929	3
Beef	12,371	- 341	3	Miscellaneous . .	397,993	6,933	2
Pork	40,222	8,159	25				
Canned meats	62,056	3,999	7				
Miscellaneous	392,291	29,773	8				
Total	3,638,390	-202,870	5	Total	3,732,974	-131,266	3

1/ For a detailed breakdown see the tables that follow.

Stocks of frozen strawberries, by package-size

Container size	Stocks on hand		
	January 31, 1961	March 31, 1961	November 30, 1961
Retail packages (20 ounces & under) . . .	60,817	39,144	62,853
Institutional packages (over 20 ounces) .	85,264	62,324	103,405
Total	146,081	101,468	166,258

Table 2. --End-of-month Apple holdings, by States

State	November 1956-60 average	November 1960	October 1961	November 1961
	<u>1,000 bu.</u>	<u>1,000 bu.</u>	<u>1,000 bu.</u>	<u>1,000 bu.</u>
New England	2,983	2,759	5,116	4,596
New York	6,967	6,502	9,364	8,841
New Jersey	718	687	1,037	930
Pennsylvania	1,994	1,368	2,499	2,465
Ohio	490	892	1,237	1,110
Illinois	429	200	304	249
Michigan	3,721	3,431	5,940	5,340
Missouri	133	78	94	72
Kansas	85	45	35	34
Virginia	3,165	3,571	4,183	3,948
West Virginia	974	934	1,041	1,032
Washington	16,091	13,382	13,488	12,243
Oregon	908	928	1,238	947
California	2,307	2,308	2,295	2,084
Other States	787	454	591	599
Total	41,752	37,539	48,462	44,490

Table 3. --End-of-month Pear holdings, by States

State	November 1956-60 average	November 1960	October 1961	November 1961
	<u>1,000 bx.</u>	<u>1,000 bx.</u>	<u>1,000 bx.</u>	<u>1,000 bx.</u>
New England	-	-	1	-
New York	11	5	46	21
New Jersey	9	-	-	-
Pennsylvania	1	-	1	1
Ohio	1	1	1	2
Illinois	5	2	5	3
Michigan	14	23	58	13
Missouri	-	-	2	1
Kansas	26	-	-	-
Virginia	1	1	-	-
West Virginia	-	-	-	-
Washington	918	947	1,236	799
Oregon	1,308	1,028	1,557	1,144
California	428	249	591	330
Other States	18	11	23	16
Total	2,740	2,267	3,521	2,330

TABLE 4. -End-of-month stocks of fruits, vegetables, and nuts

Net change in stocks during November and comparisons:

Fresh apples: Decreased by 4 million bushels; November 1960 decrease was 7 million bushels; average November decrease is 5 million bushels.

Fresh pears: Decreased by 1 million boxes; November 1960 decrease was 1 million boxes; average November decrease is 1 million boxes.

COMMODITY	UNIT	November 1956-60 av. average	November 1960	October 1961	November 1961
		THOU.	THOU.	THOU.	THOU.
Apples, fresh:					
Total.....	Bushels	41,752	37,539	48,462	44,490
Pears, fresh:					
Bartletts	Boxes, baskets, etc.	49	19	206	7
Bartletts	L.A. lugs	18	2	123	17
Other varieties	Boxes, baskets, etc.	2,254	1,868	2,669	1,865
Other varieties	L.A. lugs	419	378	523	441
Total.....	Boxes, baskets, etc.	2,740	2,267	3,521	2,330
Other fruits, vegetables, and nuts:					
Fresh grapes	Pounds	121,934	148,254	114,814	97,274
Other fresh fruits	do.	4,222	4,257	5,869	5,717
Dried and evaporated fruits...	do.	26,583	29,402	26,352	102,991
Onions	do.	41,515	38,510	19,171	23,925
Celery	do.	928	484	1,009	257
Other fresh vegetables	do.	49,344	56,386	34,750	44,707
Nut meats, peanuts	do.	104,037	161,589	89,223	117,453
Nut meats, other nuts	do.	29,248	27,151	37,101	34,365
Peanuts, in shell	do.	2,473	2,931	6,005	6,268
Other nuts, in shell	do.	30,357	26,561	14,228	28,782

TABLE 5. --End-of-month stocks of dairy and poultry products

Net change in stocks during November and comparisons:

Cream: Decreased by 4 million pounds; November 1960 decrease was 4 million pounds; average November decrease is 4 million pounds.

Butter: Decreased by 5 million pounds November 1960 decrease was 25 million pounds, average November decrease is 23 million pounds.

Cheese: Decreased by 21 million pounds, November 1960 decrease was 4 million pounds, average November decrease is 24 million pounds.

Shell eggs: Decreased by 63,000 cases; November 1960 decrease was 173,000 cases, average November decrease is 150,000 cases.

Frozen eggs: Decreased by 15 million pounds, November 1960 decrease was 26 million pounds; average November decrease is 24 million pounds.

Frozen poultry: Decreased by 61 million pounds; November 1960 decrease was 62 million pounds; average November decrease is 27 million pounds.

COMMODITY	Unit	November 1956-60 av. Thou.	November 1960 Thou.	October 1961 Thou.	November 1961 Thou.
Cream, milk, and butter:					
Fluid cream	Pound	10,213	11,031	10,150	7,508
Plastic cream (75-85% butterfat)	do.	1,756	974	3,011	1,970
Butter, creamery ^{1/}	do.	75,855	90,587	230,708	225,230
Condensed milk (bulk)	do.	6,072	1,955	1,243	869
Evap. and Cond. milk (case goods)	do.	52,136	40,726	39,504	30,432
Cheese natural:					
American ^{1/}	do.	328,779	287,718	432,609	419,443
Swiss, including block	do.	10,097	11,993	19,239	16,769
All other varieties	do.	30,409	29,093	38,701	33,396
Total cheese	do.	369,285	328,804	490,549	469,608
Eggs:					
Shell	Case	272	96	145	82
Frozen eggs, total	Pound	92,967	87,344	85,544	70,140
Whites	do.	29,109	28,118	19,837	15,577
Yolks	do.	22,609	20,234	24,200	20,929
Whole or mixed	do.	37,175	36,418	38,930	31,380
Unclassified	do.	4,074	2,574	2,577	2,254
Total eggs ^{2/}	Case	2,653	2,307	2,311	1,858
Poultry, frozen:					
Broilers or fryers	Pound	25,254	24,223	32,635	32,955
Roasters	do.	8,540	9,206	15,945	16,185
Hens, fowls	do.	76,721	65,390	60,573	65,171
Turkeys	do.	202,938	209,941	381,530	319,031
Ducks	do.	9,190	12,238	13,616	11,439
Unclassified	do.	39,958	31,511	46,147	44,492
Total poultry	do.	362,601	352,509	550,446	489,273

^{1/} Includes Government-owned stocks listed on page 12.

^{2/} Frozen eggs converted on the basis of 39.5 pounds to the case.

TABLE — End-of-month stocks of dairy and poultry products, by States
November 30, 1961

State	Creamery butter	American cheese	Shell eggs	Frozen eggs	Frozen Poultry	
	1,000 pounds	1,000 pounds	1,000 cases	1,000 pounds	Turkeys 1,000 pounds	Other poultry 1,000 pounds
Massachusetts	539	4,049	2	801	8,667	2,523
Other States	4,321	510	2	651	4,063	6,438
New England	4,860	4,559	4	1,452	12,730	8,961
New York	10,171	49,968	3	5,181	19,103	14,632
New Jersey	24,347	443	5	2,654	3,962	3,183
Pennsylvania	2,316	3,252	3	2,620	9,075	9,840
Middle Atlantic	36,834	53,663	11	10,455	32,140	27,655
Ohio	3,021	2,281	1	2,032	9,684	3,061
Indiana	1,726	183	-	970	2,546	602
Illinois	81,690	8,361	33	12,436	33,901	18,504
Michigan	3,644	3,449	-	1,216	11,633	1,483
Wisconsin	5,840	210,364	-	390	4,839	1,143
East North Central	95,921	224,638	34	17,044	62,603	24,793
Minnesota	34,905	19,208	-	1,864	23,600	6,483
Iowa	9,849	545	4	4,647	13,661	6,438
Missouri	16,590	55,601	1	11,680	22,569	5,549
Dakotas	487	112	-	624	976	40
Nebraska	1,617	202	-	3,786	8,289	11,403
Kansas	8,228	1,090	4	3,011	8,254	2,085
West North Central	71,676	76,758	9	25,612	77,349	31,998
South Atlantic	2,373	18,219	7	4,011	19,283	26,293
Kentucky	784	5,841	-	1,597	1,783	730
Tennessee	1,711	10,024	3	1,322	6,134	6,276
Ala. and Mississippi	207	6,923	-	213	698	9,276
East South Central	2,702	22,788	3	3,132	8,615	16,282
Arkansas and Louisiana	688	396	2	493	4,611	7,584
Oklahoma	1,671	1,353	-	445	4,486	989
Texas	1,148	2,514	2	2,467	9,115	2,945
West South Central	3,507	4,263	4	3,405	18,262	11,518
Colorado	710	277	-	193	3,755	863
Other States	523	3,327	-	181	12,708	1,322
Mountain	1,233	3,604	-	374	16,463	2,185
Washington	1,559	208	-	684	4,140	2,345
Oregon	1,402	8,914	-	84	3,830	1,681
California	3,163	1,829	10	3,887	63,616	16,531
Pacific	6,124	10,951	10	4,655	71,586	20,557
United States	225,230	419,443	82	70,140	319,031	170,242

TABLE 7. --End-of-month stocks of frozen fruits and vegetables

Net change in stocks during November and comparisons

Frozen fruits: Decreased by 23 million pounds, November 1960 decrease was 10 million pounds, average November decrease is 16 million pounds.

Frozen vegetables: Decreased by 52 million pounds; November 1960 change was an increase of 4 million pounds; average November change is a decrease of 14 million pounds:

Frozen orange juice: Decreased by 6 million gallons; November 1960 decrease was 6 million gallons; average November decrease is 5 million gallons, s

COMMODITY	November 1956-60 av. 1,000 pounds	November 1960 1,000 pounds	October 1961 1,000 pounds	November 1961 1,000 pounds
Fruits, frozen:				
Apples	38,433	38,757	25,784	42,443
Apricots	7,743	10,132	14,934	12,162
Blackberries	19,228	19,050	23,994	22,960
Blueberries	23,233	30,405	31,370	30,365
Boysenberries	1/	8,365	12,503	12,073
Cherries	64,787	61,253	124,035	117,030
Grapes	15,507	19,464	12,142	11,071
Peaches	43,686	58,688	64,406	62,317
Raspberries, Red	(33,230	26,521	25,460	22,181
Raspberries, Black .....	(	5,873	3,553	3,195
Strawberries	189,403	174,100	183,382	166,258
All other fruits	66,168	55,075	63,835	60,508
Total	501,418	507,683	585,398	562,563
Juices, frozen:				
Orange juice	159,054	140,086	222,717	163,634
Gallons equivalent (2)	16,066	14,150	22,497	16,529
Other fruit juices and purees	127,654	151,605	158,311	157,002
Vegetables, frozen:				
Asparagus	22,967	21,082	26,434	22,538
Beans, Fordhook lima	(112,259	53,729	69,137	61,285
Beans, baby lima .....	(	58,117	84,612	77,173
Beans, snap, regular cut	(106,027	72,479	107,187	96,872
Beans, snap, French style .....	(	47,587	53,891	49,907
Broccoli	46,722	47,062	57,310	58,243
Brussels sprouts	24,556	26,600	22,495	29,070
Carrots	1/	48,741	38,485	47,174
Cauliflower	23,025	25,233	25,337	29,484
Corn	98,636	110,183	170,029	153,023
Mixed vegetables	19,530	15,916	19,735	22,773
Peas, green	231,192	201,306	269,255	238,147
Peas and carrots, mixed	14,959	12,116	14,619	18,095
Potatoes, french fried	61,470	101,294	150,446	168,900
Spinach	45,444	57,678	71,508	65,534
Other frozen vegetables	130,504	118,263	152,347	142,778
Total	937,291	1,017,386	1,332,827	1,280,996

1/ Not available.

2/ Converted on the basis of 9.9 pounds per gallon.

TABLE 8.

End-of-month stocks of meats and meat products

Net change in stocks during November and comparisons:

Beef: Increased by 31 million pounds, November 1960 change was a decrease of 3 million pounds, average November change is an increase of 22 million pounds.

Pork: Increased by 58 million pounds, November 1960 increase was 10 million pounds, average November increase is 41 million pounds.

Other meats: Increased by 5 million pounds, November increase was 2 million pounds, average November increase is 2 million pounds:

COMMODITY	November 1956-60 av. 1,000 pounds	November 1960 1,000 pounds	October 1961 1,000 pounds	November 1961 1,000 pounds
Beef:				
Frozen	156,867	159,194	160,615	191,981
In cure and cured	10,663	9,826	12,712	12,371
Total	167,530	169,020	173,327	204,352
Pork, frozen:				
Picnics	1/	5,029	4,171	9,135
Hams	1/	34,322	25,468	30,187
Bellies	1/	20,732	7,153	23,110
Loins	1/	1/	4,785	9,954
Jowls	1/	1/	2,469	4,685
Butts	1/	1/	1,715	3,874
Spareribs	1/	1/	5,877	9,730
Trimmings	1/	1/	7,561	11,217
Other pork	1/	52,693	45,135	52,744
Total	136,719	112,776	104,334	154,636
Pork in cooler:				
Dry salt bellies	1/	6,435	3,015	5,889
Other dry salt pork	1/	5,515	3,313	3,988
Other pork cuts	1/	28,903	25,735	30,345
Total	58,119	40,853	32,063	40,222
Total pork	194,838	153,629	136,397	194,858
Other meats and meat products:				
Veal, frozen	12,920	13,219	9,370	10,790
Lamb and mutton, frozen	10,131	12,424	19,749	19,258
Canned meats in cooler:				
Hams	(54,629	(61,792	35,148	37,664
Other meats .....	(	(	22,909	24,392
Total all meats	440,048	410,084	396,900	491,314
Hides and pelts	76,534	69,970	66,364	66,169

1/ No historical data available.

2/ Includes other canned meats.

TABLE 9.

-- Cold storage holdings, by geographic regions, November 30, 1961

Commodity	Unit	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	Total
		THOU.	THOU.	THOU.	THOU.	THOU.	THOU.	THOU.	THOU.	THOU.	THOU.
Fruits, frozen:											
Apples	Pound	380	12,076	11,563	2,163	8,681	196	707	411	6,266	42,443
Apricots	do.	166	771	796	104	86	-	472	340	9,427	12,162
Blackberries	do.	116	1,098	1,808	744	276	517	975	170	17,256	22,960
Blueberries	do.	7,552	7,017	9,552	1,077	1,068	7	374	122	3,596	30,365
Boysenberries	do.	12	330	526	140	6	114	581	129	10,235	12,073
Cherries	do.	426	39,141	64,002	2,596	1,570	202	746	2,454	5,893	117,030
Grapes	do.	2	4,603	5,601	33	17	117	451	74	173	11,071
Peaches	do.	525	5,807	8,642	2,195	10,182	374	1,202	1,736	31,654	62,317
Red Raspberries	do.	651	3,249	2,263	1,327	241	33	287	168	13,962	22,181
Black Raspberries	do.	49	556	1,375	197	324	42	54	69	529	3,195
Strawberries	do.	2,951	16,784	14,097	11,997	5,415	7,403	7,504	1,444	98,663	166,258
Other frozen fruits	do.	4,626	11,262	20,118	2,311	833	529	3,633	1,412	15,784	60,508
Total	do.	17,456	102,694	140,343	24,884	28,699	9,534	16,986	8,529	213,438	562,563
Juices, frozen:											
Orange juice	do.	2,104	7,513	4,179	1,674	121,983	580	3,187	936	21,478	163,634
Other fruit juices and purees	do.	2,513	34,316	15,619	11,276	52,383	1,514	5,003	3,297	31,081	157,002
Vegetables, frozen:											
Asparagus	do.	309	4,784	1,199	1,832	2,350	219	443	297	11,105	22,538
Beans, Fordhook lima	do.	372	8,042	4,228	6,552	3,174	922	801	425	36,769	61,285
Beans, baby lima	do.	303	14,355	4,553	6,698	8,461	2,183	1,500	6,148	32,972	77,173
Beans, snap, regular cut	do.	788	32,669	5,646	5,965	6,994	5,080	1,646	1,420	36,664	96,872
Beans, snap, French style	do.	402	23,032	2,066	3,233	4,934	1,778	951	336	13,175	49,907
Broccoli	do.	493	13,432	1,862	6,486	2,962	946	1,198	2,072	28,792	58,243
Brussels sprouts	do.	338	3,472	811	4,025	777	483	1,083	486	17,595	29,070
Carrots	do.	121	7,513	2,927	6,786	762	238	530	40	28,257	47,174
Cauliflower	do.	235	3,069	973	2,554	831	467	1,012	1,056	19,287	29,484
Corn	do.	451	25,343	11,056	30,577	4,861	1,484	1,473	3,774	74,004	153,023
Mixed vegetables	do.	210	4,508	1,483	3,152	973	501	965	1,369	9,612	22,773
Peas, green	do.	9,795	31,007	16,421	30,009	6,233	3,537	1,777	4,173	135,195	238,147
Peas and carrots, mixed	do.	139	2,757	664	2,281	981	298	960	818	9,197	18,095
Potatoes, french fried	do.	15,118	19,682	9,846	20,021	7,790	2,976	3,154	59,888	30,425	168,900
Spinach	do.	931	16,442	2,144	6,180	3,497	1,760	2,924	1,945	29,711	65,534
Other frozen vegetables	do.	1,750	22,964	9,690	11,988	24,276	29,652	17,865	3,610	20,983	142,778
Total	do.	31,755	233,071	75,569	148,339	79,856	52,524	38,282	87,857	533,743	1,280,996
Poultry, frozen:											
Broilers or fryers	do.	1,594	2,656	2,282	4,760	8,886	2,422	5,334	420	4,601	32,955
Roasters	do.	4,732	1,696	955	1,543	948	2,678	781	662	2,190	16,185
Hens, fowls	do.	1,551	8,088	9,176	22,407	11,545	3,327	3,331	282	5,464	65,171
Turkeys	do.	12,730	32,140	62,603	77,349	19,283	8,615	18,262	16,463	71,586	319,031
Ducks	do.	522	6,241	2,570	488	248	138	147	124	961	11,439
Unclassified	do.	562	8,974	9,810	2,800	4,666	7,717	1,925	697	7,341	44,492
Total	do.	21,691	59,795	87,396	109,347	45,576	24,897	29,780	18,648	92,143	489,273

Continued

Commodity	Unit	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	Total
		THOU.	THOU.	THOU.	THOU.	THOU.	THOU.	THOU.	THOU.	THOU.	THOU.
Fruits, vegetables, and nuts:											
Fresh grapes	Pound	-	39	271	-	14	-	9	17	96,924	97,274
Other fresh fruits	do.	26	3,245	254	1	17	31	264	60	1,819	5,717
Dried and evaporated fruits	do.	1,184	9,365	5,491	954	1,089	291	1,129	35	5,557	25,095
Onions	do.	-	14,602	989	-	-	7	297	-	8,030	23,925
Celery	do.	2	178	66	-	-	-	11	-	-	257
Other fresh vegetables	do.	123	20,702	12,541	2,122	81	107	1,137	199	7,695	44,707
Peanut meats	do.	890	79	2,307	492	96,337	2,162	14,796	6	384	117,453
Other nut meats	do.	1,174	6,327	5,026	1,191	2,430	280	1,873	77	15,987	34,365
Peanuts, in shell	do.	-	14	52	2	4,549	1,531	110	-	10	6,268
Other nuts, in shell	do.	1,327	3,202	2,321	580	8,812	921	10,484	-	1,135	28,782
Fresh apples	Bushel	4,596	12,236	6,816	145	5,189	157	54	23	15,274	44,490
Fresh pears	Boxes	-	22	19	2	13	-	1	-	2,273	2,330
Dairy products and eggs:											
Cream (not including plastic)	Pound	800	5,593	476	123	104	-	53	64	295	7,508
Cream, plastic	do.	652	310	-	13	301	547	90	45	12	1,970
Butter, creamery	do.	4,860	36,834	95,921	71,676	2,373	2,702	3,507	1,233	6,124	225,230
Cheese, Natural, American	do.	4,559	53,663	224,638	76,758	18,219	22,788	4,263	3,604	10,951	419,443
Cheese, Swiss	do.	3	876	9,388	5,038	17	5	642	780	20	16,769
Cheese, Other natural varieties	do.	82	4,160	26,986	844	275	162	83	-	804	33,396
Eggs, shell	Case	4	11	34	9	7	3	4	-	10	82
Eggs, frozen	Pound	1,452	10,455	17,044	25,612	4,011	3,132	3,405	374	4,655	70,140
Meats, meat products, and fish:											
Beef, frozen	do.	15,299	43,587	44,466	22,140	12,097	4,791	11,171	4,436	33,994	191,981
Beef, in cure or cured	do.	2	2,264	3,104	2,687	885	511	184	914	1,820	12,371
Pork, frozen:											
Picnics	do.	138	186	2,480	4,111	608	122	722	81	687	9,135
Hams	do.	1,431	3,530	11,993	8,338	845	831	1,297	168	1,754	30,187
Bellies	do.	119	897	7,006	9,013	893	556	1,994	454	2,178	23,110
Loins	do.	396	726	2,585	4,114	471	262	398	213	789	9,954
Jowls	do.	161	214	828	2,182	314	80	159	106	641	4,685
Butts	do.	235	277	1,188	1,388	170	132	104	29	351	3,874
Spareribs	do.	84	330	1,885	5,115	327	377	283	106	1,223	9,730
Trimnings	do.	338	768	2,798	4,837	628	446	429	122	851	11,217
Other frozen pork cuts	do.	1,246	4,776	15,845	18,566	2,596	2,064	3,433	862	3,356	52,744
Pork, in cure or cured:											
Dry salt bellies	do.	-	82	862	3,902	405	232	229	49	128	5,889
Other dry salt pork	do.	-	150	1,086	2,414	180	102	33	3	20	3,988
Other pork cuts	do.	135	3,387	6,566	12,819	2,804	539	692	615	2,788	30,345
Veal, frozen	do.	541	3,268	2,391	1,229	1,071	345	720	31	1,194	10,790
Lamb and mutton, frozen	do.	1,256	5,386	4,380	1,900	1,163	130	2,806	335	1,902	19,258
Canned hams	do.	1,399	11,360	6,597	13,326	746	96	702	144	3,294	37,664
Other canned meats	do.	66	1,854	5,425	13,283	186	11	207	1,302	2,058	24,392
Hides and pelts	do.	7,526	1,844	9,172	36,856	2,060	265	5,725	905	1,816	66,169
Fish, frozen	do.	68,872	37,005	8,864	26,649	10,281	13,423	3,356	2,298	1/36,739	207,487

(1) Includes fish in Alaska.

Table 10. --Commodities stored in public general cold storage warehouses,
October 31, 1961

Cooler commodities	Net weight	Freezer commodities	Net weight
	<u>1,000 pounds</u>		<u>1,000 pounds</u>
Apples	224,160	Cream	11,168
Pears	22,190	Butter, creamery . . .	220,752
Other fresh fruits . . .	5,958	Eggs	79,458
Fresh vegetables	41,464	Poultry	507,737
Dried & evap. fruits . .	23,579		
Nutmeats	84,348	Fruits	436,777
Nuts in shell	16,851	Juices	164,473
Other dairy products . .	33,323		
Cheese	294,605	Vegetables	914,685
Shell eggs	6,786		
		Beef	141,906
Beef	942	Pork	62,902
Pork	1,519	Other meats	22,948
Canned meats	27,173		
Fish	13,304	Fish	166,220
Miscellaneous	186,819	Miscellaneous	156,926
Total	983,021	Total	2,885,952

Table 11. --End-of-month stocks of certain commodities in storage owned
by the Government 1/

Commodity	Unit	November 1956-60 average	November 1960	October 1961	November 1961 <u>2/</u>
		<u>Thou.</u>	<u>Thou.</u>	<u>Thou.</u>	<u>Thou.</u>
Butter, creamery		42,752	64,947	182,095	185,827
American Cheddar cheese.		85,647	630	47,457	43,210
Pork		4,173	2,043	2,180	1,910
Beef		4,630	2,719	2,250	1,317

1/ Government holdings are included in the tables of total holdings elsewhere in the report and consist of reported stocks held by USDA, the Armed Services, and other Government agencies. In addition to stocks reported above, Armed Services hold some stocks in space owned and operated by them on which figures are not available.

2/ Based on actual reports. Estimates on late reports are not included. Current figures will be revised next month.

Table 12. --End-of-month stocks of frozen fishery products 1/

Species	November 1960	October 1961	November 1961
	<u>1,000 lb.</u>	<u>1,000 lb.</u>	<u>1,000 lb.</u>
Salt-water:			
Filletts and steaks:			
Blocks and slabs	23,284	21,156	20,025
Cod	8,394	8,905	9,216
Flounder	7,465	5,284	5,706
Haddock	9,039	10,509	10,717
Halibut	1,999	3,878	2,850
Ocean perch	14,674	13,213	12,938
Pollock	1,041	602	807
Salmon	185	145	156
Whiting (incl. split "butterfly")	2,341	2,226	2,220
Other filletts and steaks	7,314	8,019	7,044
Fish sticks or pieces (cooked & uncooked, all species) . .	8,656	9,633	8,940
Round, dressed, etc.:			
Halibut	15,938	14,667	12,869
Mackeral (except Spanish)	1,042	552	802
Sablefish	3,480	2,146	2,349
Salmon:			
King or chinook	4,186	2,812	3,551
Silver or coho	3,577	4,096	3,503
Chum or keta	1,406	1,075	962
Unclassified	1,208	1,603	1,217
Smelt	1,535	1,214	1,329
Swordfish	1,332	2,036	2,152
Tuna	2,975	411	1,360
Whiting, headed and gutted	15,803	14,316	14,401
Other salt-water fish (except bait)	21,255	17,095	16,928
Fresh-water:			
Filletts and steaks	1,126	1,300	1,814
Round, dressed, etc.:			
Chubs	1,321	1,168	1,386
Trout	931	1,180	1,152
Whitefish	1,777	918	692
Other fresh-water fish (except bait)	2,770	3,127	3,519
Bait and animal food (salt & fresh-water)	6,536	12,328	12,416
Shellfish:			
Crabs (incl. crab meat)	1,591	2,461	2,352
Lobster tails (spiny)	4,060	5,373	5,336
Oyster meats	986	852	808
Scallop meats	3,041	3,170	3,190
Shrimp, raw and headless	37,264	17,811	21,447
All others	14,695	8,482	9,107
Squid	872	1,065	1,211
Other shellfish	2,064	2,032	2,015
Total frozen fish and shellfish	237,163	206,860	207,487
Cured fish	13,281	14,881	15,599
Total all fish and shellfish	250,444	221,741	223,086

1/ Data furnished by the Department of the Interior, Fish and Wildlife Service.

TABLE 13. -- End-of-month space and occupancy in public general warehouses in selected cities

City (1)	Net piling space reported (2)		Percentage of net piling space occupied							
			October 1960		November 1960		October 1961		November 1961	
	Cooler	Freezer	Cooler	Freezer	Cooler	Freezer	Cooler	Freezer	Cooler	Freezer
	1,000 cu. ft.	1,000 cu. ft.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
New England:										
Boston	1,333	5,752	59	84	55	84	62	83	54	84
Middle Atlantic:										
New York	4,304	6,388	58	95	60	96	70	86	82	96
Jersey City	3,171	7,295	41	71	37	70	41	80	37	84
Buffalo	1,191	1,652	70	81	75	78	90	93	92	85
Rochester	1,709	2,265	47	73	52	64	76	74	72	72
Philadelphia	1,318	6,300	83	84	79	78	77	86	78	95
Pittsburgh	1,238	2,273	54	66	53	57	27	66	26	63
E. N. Central:										
Cleveland	1,830	2,886	69	95	70	93	45	96	64	93
Cincinnati	484	2,184	78	72	75	69	67	82	62	82
Chicago	11,532	15,831	50	82	46	77	50	90	47	88
Detroit	2,408	3,607	68	95	68	91	78	95	90	96
Milwaukee	587	1,371	77	80	77	80	67	84	69	84
W. N. Central:										
Minn. St. Paul . . .	848	3,195	73	91	72	84	90	98	87	98
St. Louis	3,117	3,795	63	64	67	63	92	75	91	79
Kansas City	9,681	10,306	45	80	44	82	40	95	38	92
South Atlantic:										
Baltimore & D. C. . .	697	4,619	42	77	36	75	65	88	63	87
Richmond	3/	3/	82	99	51	65	98	94	3/	3/
Norfolk	1,036	1,209	70	80	54	70	83	77	82	73
E. S. Central:										
Nashville	3/	3/	85	94	83	92	89	87	3/	3/
Memphis	569	1,351	74	88	59	84	78	87	64	92
W. S. Central:										
New Orleans	3/	3/	85	76	85	80	85	90	3/	3/
Dallas	3/	3/	49	81	61	73	34	85	3/	3/
Ft. Worth	868	1,177	44	66	64	65	38	59	69	62
Pacific:										
Seattle	3/	3/	55	76	49	65	69	90	3/	3/
Portland	354	4,135	65	76	60	70	56	91	54	83
Los Angeles	2,939	8,735	73	82	77	78	72	86	67	95
San Francisco	1,425	3,148	58	85	58	84	51	90	47	87
San Jose	2,052	3,703	49	71	20	55	32	64	28	63
Modesto	74	3,150	24	95	31	92	24	97	30	97

1/ Space shown includes public warehouses located in the metropolitan area.

2/ Space reported to USDA and temperatures held on November 30, 1961.

3/ Insufficient returns received from this city.

TABLE 14.-- End-of-month space and occupancy in public general refrigerated warehouses

State or geographic region	Net piling space reported (1)		Percentage of net piling space occupied							
			November 1956-60 av.		November 1960		October 1961		November 1961 2/	
	Cooler	Freezer	Cooler	Freezer	Cooler	Freezer	Cooler	Freezer	Cooler	Freezer
	1,000 cu. ft.	1,000 cu. ft.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Maine, N. H. and Vt.	238	1,809	55	65	32	67	39	85	31	84
Massachusetts	2,308	7,119	70	83	61	81	68	82	64	82
R. I. and Connecticut . . .	690	1,647	59	71	51	93	79	94	70	92
New England	3,236	10,575	67	78	58	80	68	84	63	84
New York	19,745	19,183	65	78	63	85	72	85	75	87
New Jersey	3,612	8,615	48	75	42	73	45	82	42	93
Pennsylvania	3,586	8,658	63	77	59	71	62	79	59	77
Middle Atlantic	26,943	36,456	62	77	60	79	67	83	68	86
Ohio	3,468	7,416	64	81	67	86	60	91	68	88
Indiana	631	1,513	64	71	52	74	68	87	64	81
Illinois	14,240	16,823	52	77	48	76	57	89	55	88
Michigan	3,426	7,084	72	79	69	83	76	86	77	85
Wisconsin	5,914	2,510	58	77	44	74	82	83	78	82
East North Central	27,679	35,346	58	64	52	80	66	88	64	86
Minnesota	1,163	4,930	65	76	67	81	82	91	80	89
Iowa	576	4,240	42	50	31	52	32	77	42	78
Missouri	3,384	7,591	57	63	60	68	75	80	74	79
Dakotas and Nebraska . . .	892	3,912	47	83	44	77	51	86	49	86
Kansas	10,109	10,979	46	81	44	82	41	93	39	90
West North Central	16,124	31,652	50	72	49	74	52	87	50	85
Delaware, Maryland & D.C.	696	4,883	54	73	39	76	65	87	63	86
Virginia and West Va. . . .	3,450	2,427	70	74	72	61	56	80	55	77
North and South Carolina . .	664	1,551	63	75	53	80	58	85	55	80
Georgia	4,720	3,347	72	89	76	92	67	87	70	87
Florida	1,116	12,397	55	42	59	40	53	52	48	43
South Atlantic	10,646	24,605	67	60	68	60	61	68	61	63
Kentucky	937	1,618	60	71	54	78	77	82	76	81
Tennessee	1,796	5,781	70	79	81	89	86	85	80	88
Alabama and Mississippi . .	753	1,284	76	75	96	99	85	96	84	92
East South Central	3,486	8,683	69	76	74	87	84	86	80	87
Arkansas	112	1,464	41	76	33	86	33	96	35	86
Louisiana	4/	4/	73	78	85	82	82	92	4/	4/
Oklahoma	783	996	56	73	63	75	40	85	48	86
Texas	3,006	3,782	50	60	61	69	43	77	62	90
West South Central	3,901	6,242	53	66	63	74	47	82	63	89
Mountain	1,388	7,673	63	78	46	82	52	89	46	87
Washington	676	12,589	38	76	31	65	48	83	39	77
Oregon	2,343	8,083	39	78	50	73	32	91	27	85
California	10,585	27,823	53	79	50	74	44	81	47	81
Pacific	13,604	48,495	51	78	48	72	42	83	43	81
United States (3)	107,007	209,727	58	74	56	75	60	83	60	82

1/ Space reported to USDA and temperatures held on November 30, 1961.

2/ Preliminary.

3/ Weighted average occupancy.

4/ Insufficient returns.

Table 15 --United States refrigerated usable piling space, October 1, 1959

State or geographic region	Type of warehouse							
	Public general		Private & semiprivate general		Meat-packing plants		Apple houses	
	0° F. or below 1,000 cu. ft.	Above 0° F. to 50° F. 1,000 cu. ft.	0° F. or below 1,000 cu. ft.	Above 0° F. to 50° F. 1,000 cu. ft.	0° F. or below 1,000 cu. ft.	Above 0° F. to 50° F. 1,000 cu. ft.	0° F. or below 1,000 cu. ft.	Above 0° F. to 50° F. 1,000 cu. ft.
Maine.....	1,674	237	1/	1/	-	-	1/	1/
New Hampshire.....	1/	1/	1/	1/	-	-	1/	1/
Vermont.....	1/	-	1/	1/	-	-	1/	1/
Massachusetts.....	9,743	3,112	1,100	146	1/	1/	1/	1/
Rhode Island.....	1/	1/	1/	1/	-	-	1/	1/
Connecticut.....	1,013	336	-	-	-	-	1/	1/
New England.....	13,483	4,014	1,936	165	1/	1/	1/	10,972
New York.....	25,430	21,202	2,338	5,494	718	1,856	359	17,610
New Jersey.....	10,870	5,758	2,063	2,745	-	-	88	2,893
Pennsylvania.....	11,913	4,401	2,319	1,769	251	712	434	6,138
Middle Atlantic...	48,213	31,361	6,720	10,008	969	2,568	881	26,641
Ohio.....	8,294	4,780	83	201	1/	1/	1/	1/
Indiana.....	2,238	685	650	187	333	745	1/	1/
Illinois.....	17,424	17,971	159	101	516	1,296	1/	1/
Michigan.....	8,964	5,507	4,585	2,086	1/	1/	1/	1/
Wisconsin.....	3,726	9,344	397	6,241	1/	1/	1/	1/
East North Central	40,646	38,287	5,874	8,816	2,383	4,703	53	16,892
Minnesota.....	5,985	939	2,761	944	1,393	816	-	-
Iowa.....	5,751	732	643	289	1,933	2,689	-	-
Missouri.....	8,284	4,362	1/	1/	630	1,107	1/	1/
North Dakota.....	1/	1/	-	-	1/	1/	-	-
South Dakota.....	1/	1/	-	-	1/	1/	-	-
Nebraska.....	4,074	871	1/	1/	1/	1/	-	-
Kansas.....	9,103	9,607	1/	1/	302	1,771	-	-
West North Central	33,550	16,549	4,588	2,153	5,253	11,295	1/	1/
Delaware.....	1/	1/	1/	1/	1/	1/	-	-
Maryland & D. C.....	4,995	885	893	55	1/	1/	-	-
Virginia.....	3,131	6,210	1,365	5,069	20	193	563	13,498
West Virginia.....	551	733	578	338	1/	1/	1/	1/
North Carolina.....	1,370	620	100	107	-	-	1/	1/
South Carolina.....	1/	1/	1/	1/	1/	1/	-	-
Georgia.....	3,551	3,629	654	368	244	529	-	-
Florida.....	13,176	1,220	16,068	313	-	-	-	-
South Atlantic....	27,551	13,491	20,186	6,331	512	1,593	760	17,767
Kentucky.....	1,499	1,055	1/	1/	1/	1/	-	-
Tennessee.....	6,003	1,997	571	68	1/	1/	-	1/
Alabama.....	2,223	1,412	1/	1/	1/	1/	-	-
Mississippi.....	160	343	240	139	-	-	-	-
East South Central	9,885	4,807	945	350	88	872	-	1/
Arkansas.....	2,312	326	1/	1/	-	-	-	1/
Louisiana.....	2,823	1,339	423	57	-	-	-	-
Oklahoma.....	1,126	691	1/	1/	1/	1/	-	-
Texas.....	11,936	5,105	1/	1/	1/	1/	-	-
West South Central	18,197	7,461	1,028	849	1,295	844	-	1/
Montana.....	153	128	1/	1/	1/	1/	-	-
Idaho & Wyoming.....	2,021	288	1,658	1,024	1/	1/	-	-
Colorado.....	2,730	1,214	1/	1/	1/	1/	-	-
New Mexico.....	1/	1/	1/	1/	-	-	-	-
Arizona.....	1/	1/	-	-	1/	1/	-	-
Utah & Nevada.....	1,957	318	1/	1/	1/	1/	-	-
Mountain.....	7,390	2,075	1,985	1,070	1/	1/	-	-
Washington.....	11,734	2,578	4,945	2,299	332	210	1,313	72,463
Oregon.....	9,318	2,185	7,808	821	1/	1/	1/	1/
California.....	34,632	9,886	10,221	14,818	1/	1/	1/	1/
Pacific.....	55,684	14,649	22,974	17,938	516	541	2,304	91,096
United States.....	254,599	132,694	66,236	47,680	11,501	23,327	4,013	164,282

1/ Not shown to avoid disclosure of individual plant reports.

THE EFFECT OF TEMPERATURE ON THE RATE OF REACTION



Figure 1: A line graph showing the rate of reaction versus temperature. The x-axis is labeled 'TEMPERATURE (°C)' and ranges from 0 to 100. The y-axis is labeled 'RATE OF REACTION' and ranges from 0 to 1.0. The curve shows a sharp increase in the rate of reaction as temperature increases, starting near zero at 0°C and reaching a maximum of 1.0 at 100°C.

The graph shows that the rate of reaction increases significantly with temperature. This is due to the fact that as temperature increases, the kinetic energy of the molecules increases, leading to a higher frequency of effective collisions between the reactant molecules.

At 0°C, the rate of reaction is very low, indicating that the molecules have insufficient kinetic energy to overcome the activation energy barrier. As the temperature rises, more molecules possess the necessary energy to undergo a successful reaction, resulting in a rapid increase in the reaction rate.

NET WEIGHT OF REFRIGERATED COMMODITIES

